

5750338

FIG. 1a

CELLS
WITHIN
CLINICAL
SAMPLE



TARGET DNA

STEP 1

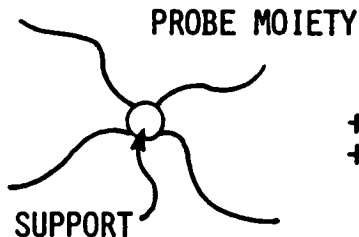
SOLUBLIZING AGENTS
& DENATURATION
OF NUCLEIC ACID

SAMPLE NUCLEIC ACID & CELLULAR DEBRI & IMPURITIES

STEP 2

RETRIEVABLE SUPPORT
WITH PROBE MOIETY

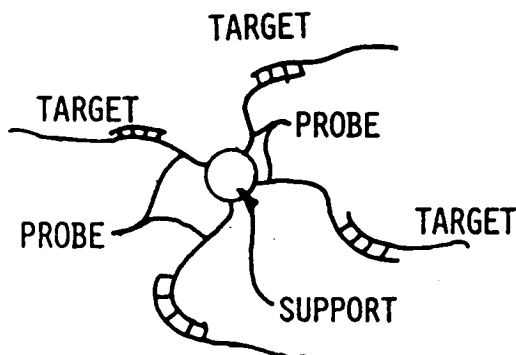
SAMPLE
NUCLEIC ACID +



+ CELLULAR DEBRIS
+ IMPURITIES

STEP 3

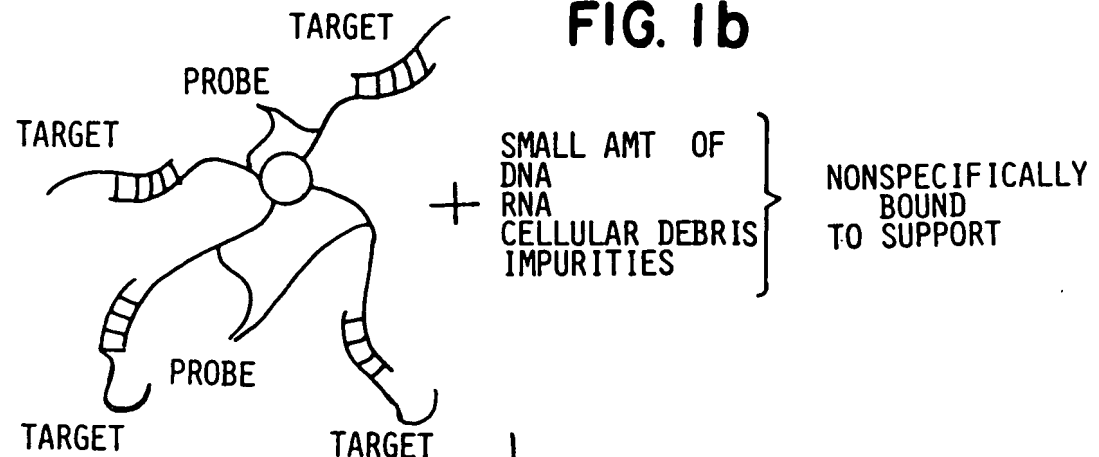
BINDING CONDITIONS



+
LARGE AMOUNT OF
DNA
RNA
CELLULAR DEBRIS
IMPURITIES

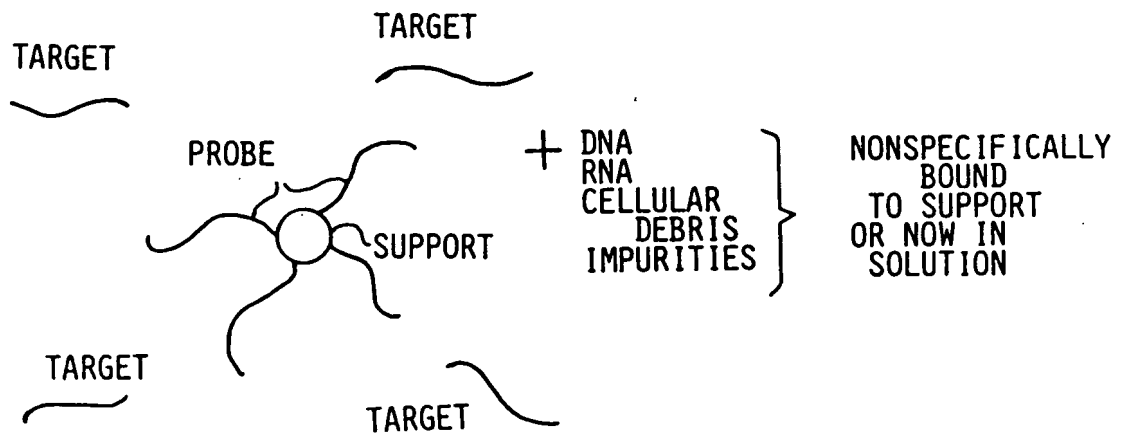
STEP 4

FIG. 1b



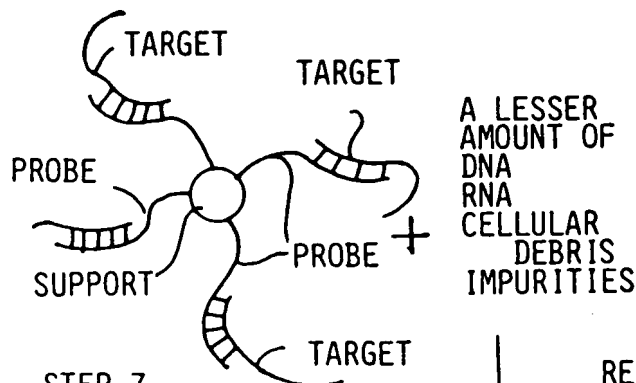
STEP 5

DENATURATION



STEP 6

SEPARATION OF OLD SUPPORT
FROM SECOND MEDIUM AND
INTRODUCTION OF NEW SUPPORT
UNDER BINDING CONDITIONS



STEP 7

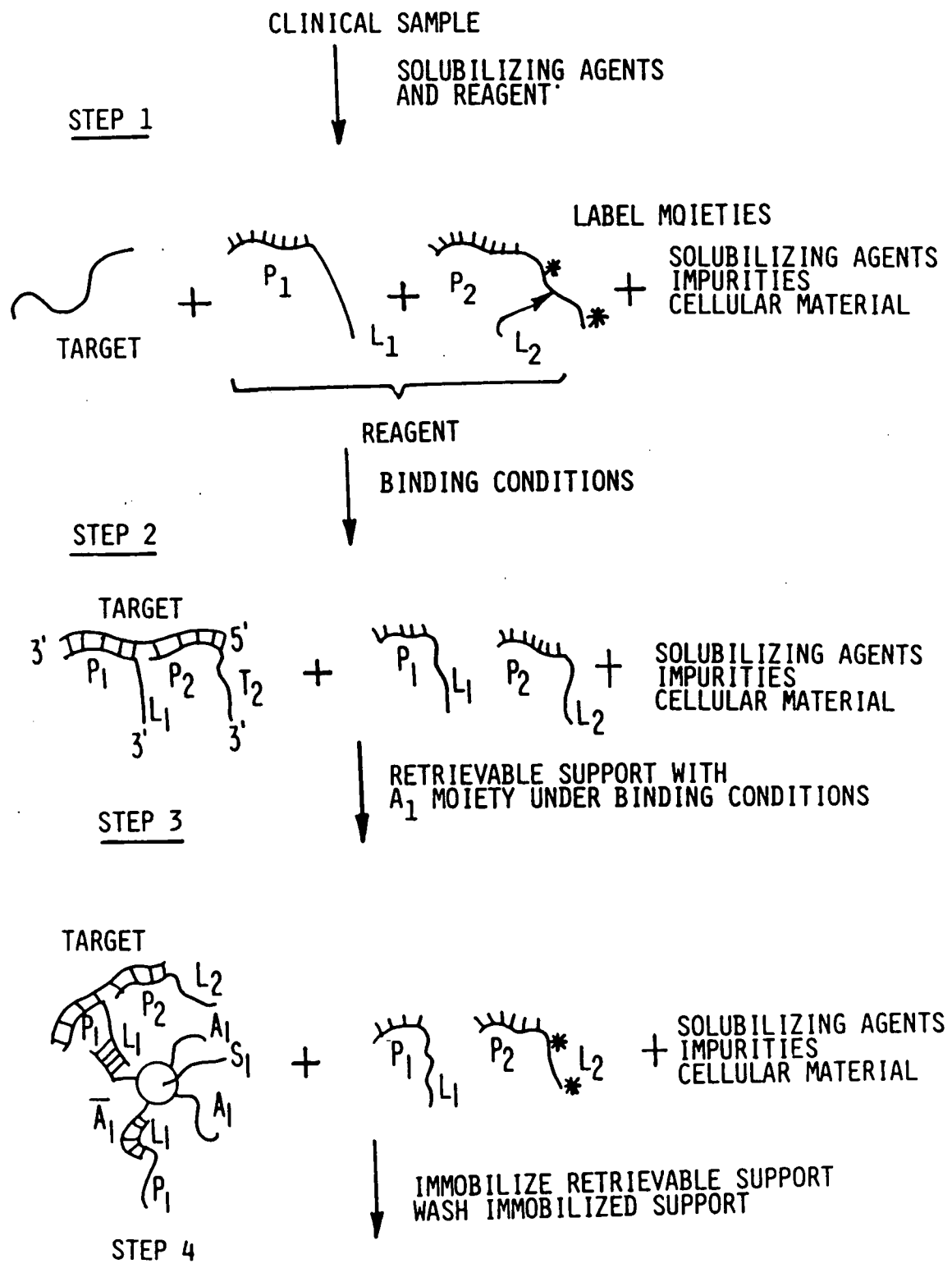
REPEAT CYCLE AS NECESSARY

STEP 8

DETECT TARGET

08238080-050394

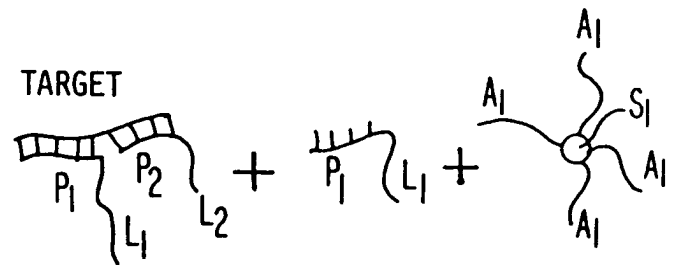
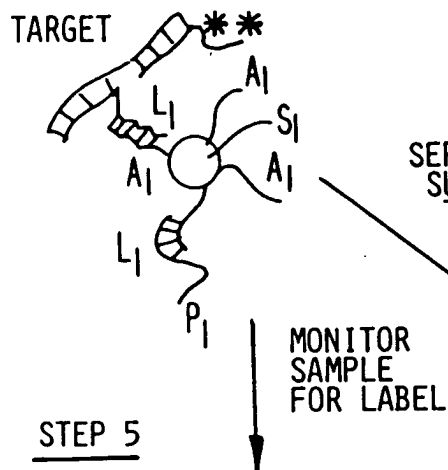
FIG. 2a



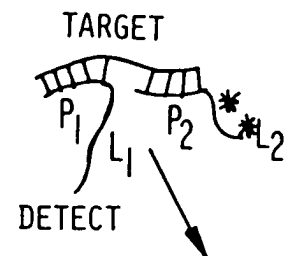
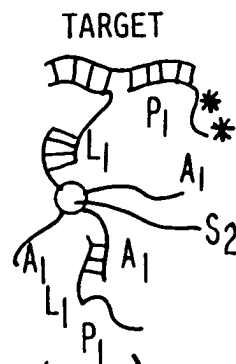
16E050-0808E280

APPROVED	DATE
BY	INITIALS
DRAFTSMAN	NO.

FIG. 2b

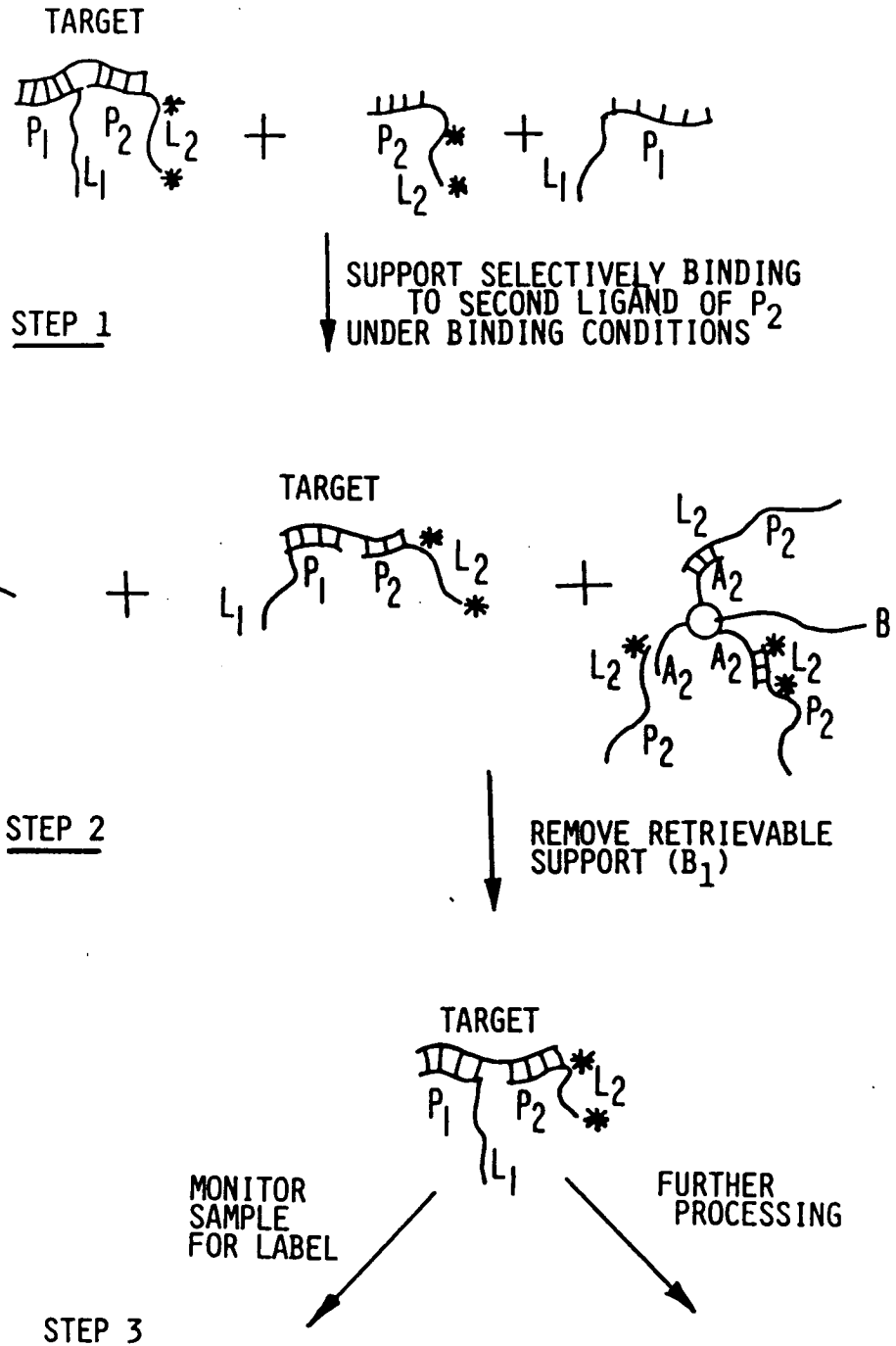


STEP 6



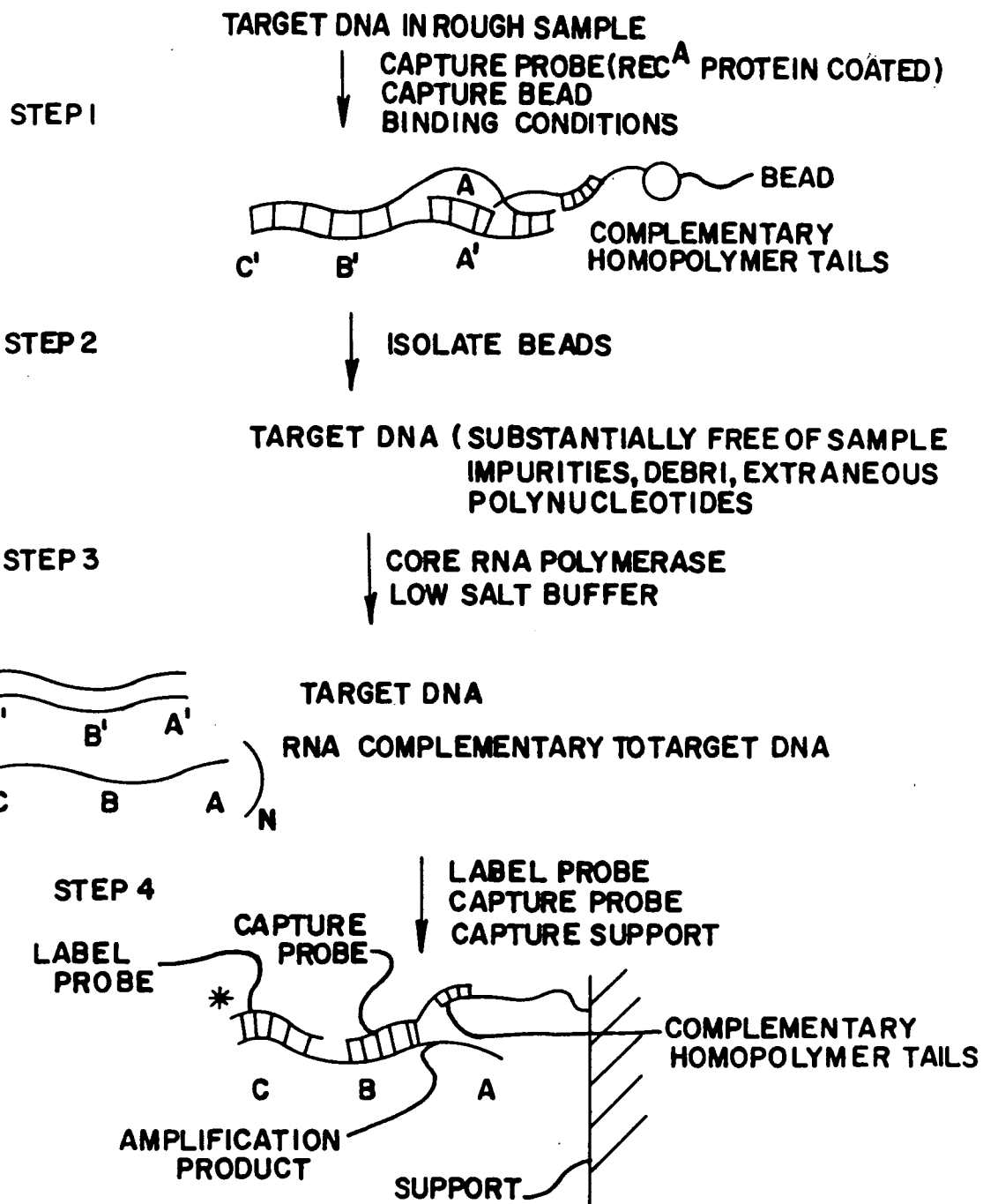
APPROVED	C.S. FIG.
BY	CLASS
DRAFTSMAN	

FIG. 3



08238080-050394

FIG.4

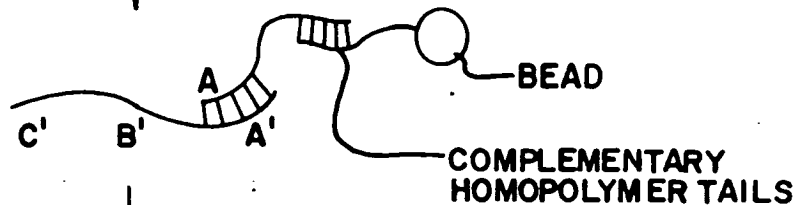


462050-0808E280

FIG. 5

STEP 1

TARGET DNA IN ROUGH SAMPLE
CAPTURE PROBE
CAPTURE BEAD



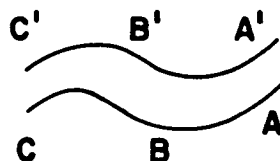
STEP 2

ISOLATE BEADS

TARGET DNA (SUBSTANTIALLY FREE OF
SAMPLE IMPURITIES, DEBRI,
EXTRANEIOUS POLYNUCLEOTIDES)

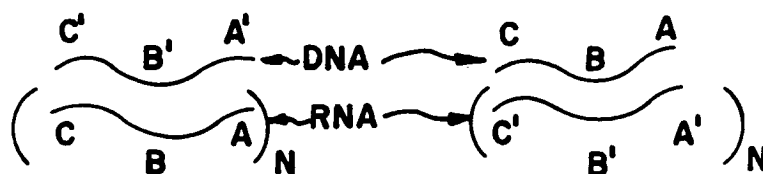
STEP 3a

DNA POLYMERASE
HEXAMER PRIMERS



STEP 3b

CORE RNA POLYMERASE
LOW SALT BUFFER



STEP 4

LABELLED PROBE
CAPTURE PROBE
SUPPORT

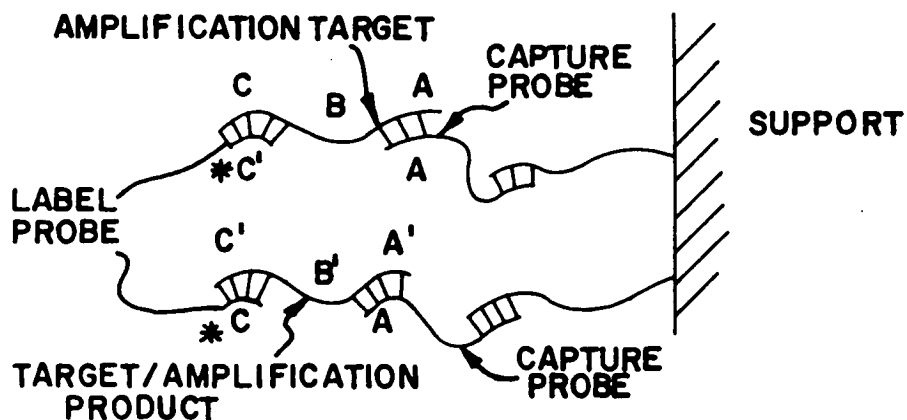
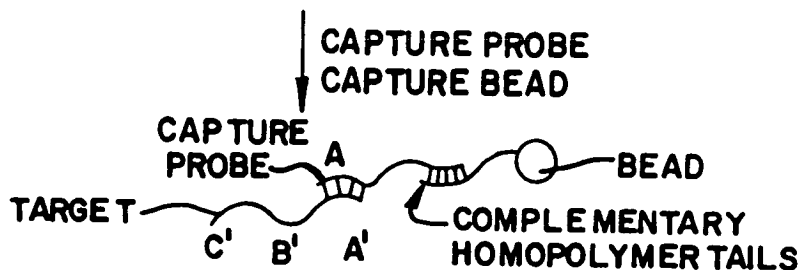


FIG. 6

STEP 1

TARGET DNA IN ROUGH SAMPLE



STEP 2

ISOLATE BEAD

TARGET DNA (SUBSTANTIALLY FREE OF SAMPLE IMPURITIES, DEBRI, AND EXTRANEIOUS POLYNUCLEOTIDES)

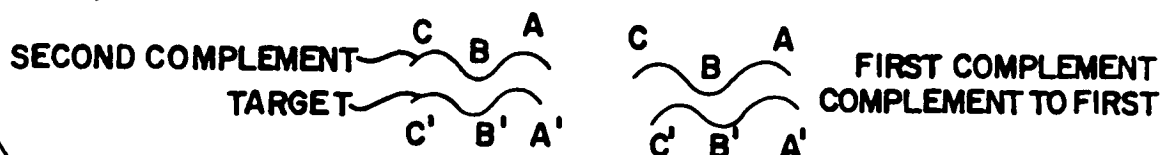
STEP 3a

DNA POLYMERASE
HEXAMER PRIMERS



STEP 3b

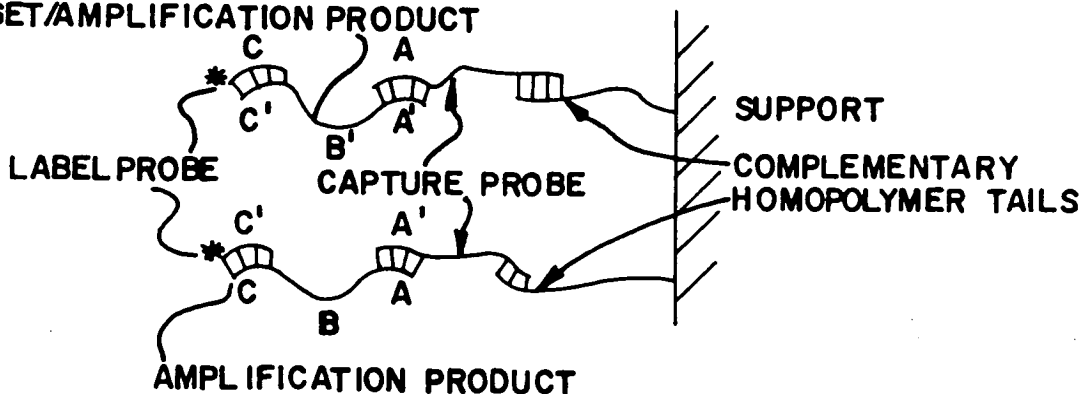
1. DENATURE
2. DNA POLYMERASE



STEP 4

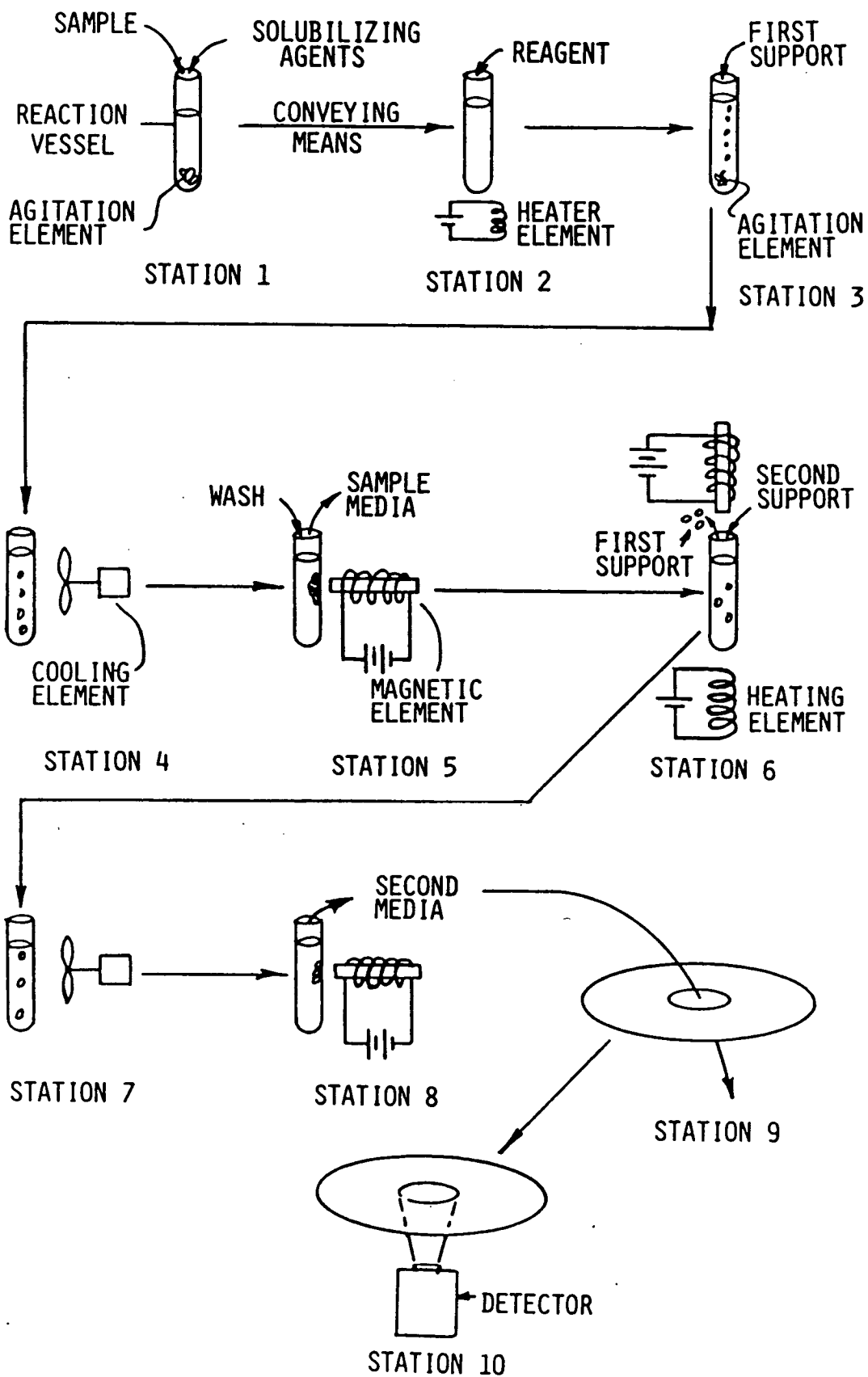
DENATURE
LABEL PROBE
CAPTURE SUPPORT
CAPTURE PROBE

TARGET/AMPLIFICATION PRODUCT



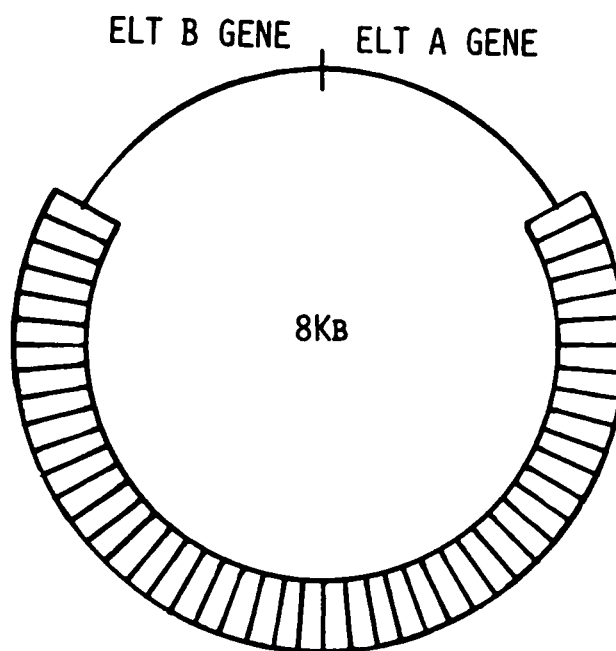
46238080-050394

FIG. 7



46E050-0808E280

APPROVED.	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



PBR322- LIKE SEQUENCES

FIG. 8

46E050-0808E280